

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Mamoru TANAKA et al.

Application No.: 10/509,765

Filing Date: September 30, 2004

For: THIOURETHANE-BASED OPTICAL MATERIAL

Group Art Unit: 1711

Examiner: DUC TRUONG

Confirmation No.: 4392

SECOND REQUEST FOR CORRECTED OFFICIAL FILING RECEIPT

**Commissioner for Patents ·
Office of Initial Patent Examination
Customer Service Center
P.O. Box 1450
Alexandria, VA 22313-1450**

Sir:

A Request for Corrected Filing Receipt was filed on March 15, 2005.

Enclosed is a copy of the Request for Corrected Filing Receipt and Official Filing Receipt showing the correction that is needed. The correction is as follows:

Under **Domestic Priority** data as claimed by applicant, the filing date of the corresponding PCT application should be **-04/16/2003--**.

Issuance of a corrected Official Filing Receipt is respectfully requested.

Respectfully submitted,

BUCHANAN INGERSOLL & ROONEY PC

Date: January 12, 2007

By:

Robert G. Mukai
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Attorney Docket No. 018765-183

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Mamoru TANAKA et al.)	Group Art Unit: 1711
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BURNS, DOANE, SWECKER & MATHIS, L.L.P.

Date: March 15, 2005

By: Robert G. Mukai
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UNITED STATES PATENT AND TRADEMARK OFFICE

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/509,765	09/30/2004	1711	956	018765-183		22	3

CONFIRMATION NO. 4392

21839
BURNS DOANE SWECKER & MATHIS L L P
POST OFFICE BOX 1404
ALEXANDRIA, VA 22313-1404

FILING RECEIPT



OC000000015282944

Date Mailed: 03/01/2005

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Mamoru Tanaka, Omuta-shi, JAPAN;
Shigetoshi Kuma, Omuta-shi, JAPAN;
Munehito Funaya, Sodegaura-shi, JAPAN;
Seiichi Kobayashi, Omuta-shi, JAPAN;

Assignment For Published Patent Application

Mitsui Chemicals, INC., Minato-ku Tokyo, JAPAN

Power of Attorney: The patent practitioners associated with Customer Number 21839.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/04816 ~~12/12/2003~~

04/16/2003

Foreign Applications

JAPAN 2002-117531 04/19/2002

Projected Publication Date: 06/09/2005

Non-Publication Request: No

Early Publication Request: No

Title

Thiourethane-based optical material

Preliminary Class

528

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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F000228W501

From the INTERNATIONAL BUREAU

PCT

NOTICE INFORMING THE APPLICANT OF THE
COMMUNICATION OF THE INTERNATIONAL
APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

To:

MITSUI CHEMICALS, INC. INTELLECTUAL PROPERTY
DIVISION

580-32, Nagaura

Sodegaura-shi, Chiba 299-0265
JAPON

Date of mailing (day/month/year) 23 October 2003 (23.10.03)		
Applicant's or agent's file reference F000228		
IMPORTANT NOTICE		
International application No. PCT/JP03/04816 ✓	International filing date (day/month/year) 16 April 2003 (16.04.03) ✓	Priority date (day/month/year) 19 April 2002 (19.04.02)
Applicant MITSUI CHEMICALS, INC. et al		

1. Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this notice:

AU, AZ, BY, CH, CN, CO, DE, DZ, HU, KG, KR, MD, MK, MZ, RU, TM, US

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

AE, AG, AL, AM, AP, AT, BA, BB, BG, BR, BZ, CA, CR, CU, CZ, DK, DM, EA, EC, EE, EP, ES, FI, GB, GD, GE, GH, GM, HR, ID, IL, IN, IS, KE, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MG, MN, MW, MX, NI, NO, NZ, OA, OM, PH, PL, PT, RO, SC, SD, SE, SG, SK, SL, TJ, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

3. Enclosed with this notice is a copy of the international application as published by the International Bureau on 30 October 2003 (30.10.03) under No. 03/089488

4. **TIME LIMITS** for filing a demand for international preliminary examination and for entry into the national phase

The applicable time limit for entering the national phase will, subject to what is said in the following paragraph, be 30 MONTHS from the priority date, not only in respect of any elected Office if a demand for international preliminary examination is filed before the expiration of 19 months from the priority date, but also in respect of any designated Office, in the absence of filing of such demand, where Article 22(1) as modified with effect from 1 April 2002 applies in respect of that designated Office. For further details, see *PCT Gazette* No. 44/2001 of 1 November 2001, pages 19926, 19932 and 19934, as well as the *PCT Newsletter*, October and November 2001 and February 2002 issues.

In practice, time limits other than the 30-month time limit will continue to apply, for various periods of time, in respect of certain designated or elected Offices. For regular updates on the applicable time limits (20, 21, 30 or 31 months, or other time limit), Office by Office, refer to the *PCT Gazette*, the *PCT Newsletter* and the *PCT Applicant's Guide*, Volume II, National Chapters, all available from WIPO's Internet site, at <http://www.wipo.int/pct/en/index.html>.

For filing a demand for international preliminary examination, see the *PCT Applicant's Guide*, Volume I/A, Chapter IX. Only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination (at present, all PCT Contracting States are bound by Chapter II).

It is the applicant's sole responsibility to monitor all these time limits.



The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer Judith Zahra
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338.91.11

L023

(19) 世界知的所有権機関
国際事務局(43) 国際公開日
2003 年 10 月 30 日 (30.10.2003)

PCT

(10) 国際公開番号
WO 03/089488 A1

- (51) 国際特許分類: C08G 18/38, C07D 339/00, 339/08, G02B 1/04
- (21) 国際出願番号: PCT/JP03/04816
- (22) 国際出願日: 2003 年 4 月 16 日 (16.04.2003)
- (25) 国際出願の言語: 日本語
- (26) 国際公開の言語: 日本語
- (30) 優先権データ: 特願2002-117531 2002 年 4 月 19 日 (19.04.2002) JP
- (71) 出願人 (米国を除く全ての指定国について): 三井化学株式会社 (MITSUI CHEMICALS, INC.) [JP/JP]; 〒100-6070 東京都千代田区霞ヶ関三丁目 2 番 6 号 Tokyo (JP).
- (72) 発明者; および
- (75) 発明者/出願人 (米国についてのみ): 田中 守 (TANAKA, Mamoru) [JP/JP]; 〒836-8610 福岡県大牟田市浅牟田 3 0 三井化学株式会社内 Fukuoka (JP). 隈茂教 (KUMA, Shigetoshi) [JP/JP]; 〒836-8610 福岡県大牟田市浅牟田 3 0 三井化学株式会社内 Fukuoka (JP). 船谷 宗人 (FUNAYA, Munehito) [JP/JP]; 〒299-0265 千葉県袖ヶ浦市長浦 5 8 0-3 2 三井化学株式会社内 Chiba (JP). 小林 誠一 (KOBAYASHI, Seiichi) [JP/JP];
- (81) 指定国 (国内): AE, AG, AI, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) 指定国 (広域): ARIPO 特許 (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), ユーラシア特許 (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), ユーロッパ特許 (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI 特許 (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- 規則 4.17 に規定する申立て:
— US のみのための発明者である旨の申立て (規則 4.17(iv))
- 添付公開書類:
— 国際調査報告書
- 2 文字コード及び他の略語については、定期発行される各 PCT ガゼットの巻頭に掲載されている「コードと略語のガイダンスノート」を参照。

(54) Title: THIOURETHANE-BASED OPTICAL MATERIAL

(54) 発明の名称: チオウレタン系光学材料

(57) Abstract: A method by which a high-refractive-index resin excellent in material properties including transparency, hue, heat resistance, and impact resistance is obtained. A polymerizable composition for the high-refractive-index resin is provided which comprises a polythiol compound having a dithioacetal, dithioacetal, o-trithioformate, or o-tetrathiocarbonate skeleton and two or more mercapto groups and a compound having two or more iso(thio)cyanate groups, the molar ratio of the mercapto groups to the iso(thio)cyanate groups being from 1.0 to 3.0, excluding 1.0. Also provided are: a process for resin production which comprises curing the composition; a resin obtained by curing the composition; an optical element comprising the resin; and a lens comprising the optical element.

(57) 要約: 透明性、色相、耐熱性、耐衝撃性等の諸物性に優れた高屈折率樹脂を得る方法を提供する。ジチオアセタール、ジチオケタール、オルトトリチオギ酸エステルもしくはオルトテトラチオ炭酸エステル骨格を有し、かつメルカプト基を2個以上有するポリチオール化合物と、イソ(チオ)シアナト基を2個以上持つ化合物を含む組成物であって、メルカプト基とイソ(チオ)シアナト基のモル比が1.0より大きく3.0以下である高屈折率樹脂用重合性組成物、その組成物を硬化させて得られる樹脂の製造方法、及びその組成物を硬化させて得られる樹脂、並びにその樹脂からなる光学素子及び光学素子よりなるレンズを提供する。

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